CLAIMS

- 1. A dynamic weighing system, comprising a combination of at least one speed measurement sensor and a sensor having an electromagnetic loop designed to produce a signal in response to a pressure applied to its surface, the sensor having an electromagnetic loop comprising at least:
- an electromagnetic loop (22) designed to radiate
 an electromagnetic field; and
 - a conducting cover (20) forming an interface between the surface on which the pressure (P) is intended to be applied and the electromagnetic loop, the interface stopping the electromagnetic field radiated by the loop.
 - 2. The system as claimed in claim 1, in which the loop lies approximately in a plane, this plane being approximately orthogonal to the direction in which the pressure is applied.
 - 3. The system as claimed in claim 1, in which the cover forms part of an envelope, the envelope being configured so as to entirely confine the electromagnetic field radiated by the loop.
 - 4. The system as claimed in claim 1, in which the cover is configured so as to deform when pressure is applied to the surface of the sensor, the deformation of the cover being elastic.
 - 5. The system as claimed in claim 1, in which the cover is configured so as to move elastically when pressure is applied to the surface of the sensor.

6. The system as claimed in the preceding claim, in which the displacement of the cover includes a translation toward the loop.

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- 7. The system as claimed in the preceding claim, which further includes an elastic material (23) placed between the cover and the loop, said elastic material being compressed in order to allow displacements of the cover.
- 8. The system as claimed in the preceding claim, in which the elastic material is formed by a resin.
- 10 9. The system as claimed in claim 1, in which the cover is made of a nonferromagnetic material.

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10. The system as claimed in the preceding claim, in which the material forming the cover is aluminum, copper or one of their alloys.